Mengtao Sun

List of Publications by Year
in descending order

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		15504	19749
299	16,586	65	117
papers	citations	h-index	g-index

304	304	304	17085
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultrafast charge transfer in atomically thin MoS2/WS2 heterostructures. Nature Nanotechnology, 2014, 9, 682-686.	31.5	1,838
2	Elastic Properties of Chemical-Vapor-Deposited Monolayer MoS₂, WS₂, and Their Bilayer Heterostructures. Nano Letters, 2014, 14, 5097-5103.	9.1	512
3	Graphene, hexagonal boron nitride, and their heterostructures: properties and applications. RSC Advances, 2017, 7, 16801-16822.	3.6	500
4	Nanoplasmonic waveguides: towards applications in integrated nanophotonic circuits. Light: Science and Applications, 2015, 4, e294-e294.	16.6	488
5	A Novel Application of Plasmonics: Plasmonâ€Driven Surfaceâ€Catalyzed Reactions. Small, 2012, 8, 2777-2786.	10.0	409
6	Reduced Graphene Oxide Electrically Contacted Graphene Sensor for Highly Sensitive Nitric Oxide Detection. ACS Nano, 2011, 5, 6955-6961.	14.6	367
7	Ascertaining p,pâ€²-Dimercaptoazobenzene Produced from p-Aminothiophenol by Selective Catalytic Coupling Reaction on Silver Nanoparticles. Langmuir, 2010, 26, 7737-7746.	3.5	343
8	Electrical properties and applications of graphene, hexagonal boron nitride (h-BN), and graphene/h-BN heterostructures. Materials Today Physics, 2017, 2, 6-34.	6.0	305
9	Aqueousâ€Processable Noncovalent Chemically Converted Grapheneâ€“Quantum Dot Composites for Flexible and Transparent Optoelectronic Films. Advanced Materials, 2010, 22, 638-642.	21.0	288
10	In-situ plasmon-driven chemical reactions revealed by high vacuum tip-enhanced Raman spectroscopy. Scientific Reports, 2012, 2, 647.	3.3	254
11	Substrate-, Wavelength-, and Time-Dependent Plasmon-Assisted Surface Catalysis Reaction of 4-Nitrobenzenethiol Dimerizing to p,pâ€²-Dimercaptoazobenzene on Au, Ag, and Cu Films. Langmuir, 2011, 27, 10677-10682.	3.5	223
12	Theoretical Characterization of the PC₆₀BM:PDDTT Model for an Organic Solar Cell. Journal of Physical Chemistry C, 2011, 115, 21865-21873.	3.1	213
13	Photoinduced Intramolecular Charge Transfer and S₂ Fluorescence in Thiopheneâ€“â€Conjugated Donorâ€“Acceptor Systems: Experimental and TDDFT Studies. Chemistry - A European Journal, 2008, 14, 6935-6947.	3.3	203
14	Nanowire-supported plasmonic waveguide for remote excitation of surface-enhanced Raman scattering. Light: Science and Applications, 2014, 3, e199-e199.	16.6	190
15	Remotely excited Raman optical activity using chiral plasmon propagation in Ag nanowires. Light: Science and Applications, 2013, 2, e112-e112.	16.6	185
16	Tip-Enhanced Raman Spectroscopy. Analytical Chemistry, 2016, 88, 9328-9346.	6.5	180
17	Plasmon-driven reaction controlled by the number of graphene layers and localized surface plasmon distribution during optical excitation. Light: Science and Applications, 2015, 4, e342-e342.	16.6	178
18	Plasmon-exciton coupling of monolayer MoS2-Ag nanoparticles hybrids for surface catalytic reaction. Materials Today Energy, 2017, 5, 72-78.	4.7	169

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19	Exciton-plasmon coupling interactions: from principle to applications. Nanophotonics, 2018, 7, 145-167.	6.0	164
20	The pH-Controlled Plasmon-Assisted Surface Photocatalysis Reaction of 4-Aminothiophenol top,pâ€²-Dimercaptoazobenzene on Au, Ag, and Cu Colloids. Journal of Physical Chemistry C, 2011, 115, 9629-9636.	3.1	149
21	Facile Fabrication of Highâ€Density Subâ€1â€nm Gaps from Au Nanoparticle Monolayers as Reproducible SERS Substrates. Advanced Functional Materials, 2016, 26, 8137-8145.	14.9	143
22	External Electric Field-Dependent Photoinduced Charge Transfer in a Donorâ€“Acceptor System for an Organic Solar Cell. Journal of Physical Chemistry C, 2013, 117, 15879-15889.	3.1	129
23	High-Density Three-Dimension Graphene Macroscopic Objects for High-Capacity Removal of Heavy Metal Ions. Scientific Reports, 2013, 3, 2125.	3.3	129
24	Is 4â€nitrobenzenethiol converted to p,pâ€²â€dimercaptoazobenzene or 4â€aminothiophenol by surface photochemistry reaction?. Journal of Raman Spectroscopy, 2011, 42, 1205-1206.	2.5	119
25	Control of structure and photophysical properties by protonation and subsequent intramolecular hydrogen bonding. Journal of Chemical Physics, 2006, 124, 054903.	3.0	118
26	Probing Local Strain at MX₂â€“Metal Boundaries with Surface Plasmon-Enhanced Raman Scattering. Nano Letters, 2014, 14, 5329-5334.	9.1	118
27	Amplitude- and Phase-Resolved Nanospectral Imaging of Phonon Polaritons in Hexagonal Boron Nitride. ACS Photonics, 2015, 2, 790-796.	6.6	115
28	Carbon Dots: Synthesis, Properties and Applications. Nanomaterials, 2021, 11, 3419.	4.1	115
29	Can p,pâ€²-Dimercaptoazobisbenzene Be Produced from p-Aminothiophenol by Surface Photochemistry Reaction in the Junctions of a Ag Nanoparticleâ^'Moleculeâ^'Ag (or Au) Film?. Journal of Physical Chemistry C, 2010, 114, 18263-18269.	3.1	114
30	Recent progress in the applications of graphene in surface-enhanced Raman scattering and plasmon-induced catalytic reactions. Journal of Materials Chemistry C, 2015, 3, 9024-9037.	5.5	113
31	Electrically enhanced hot hole driven oxidation catalysis at the interface of a plasmonâ€“exciton hybrid. Nanoscale, 2018, 10, 5482-5488.	5.6	110
32	Visualized method of chemical enhancement mechanism on SERS and TERS. Journal of Raman Spectroscopy, 2014, 45, 533-540.	2.5	107
33	Ultrafast Dynamics of Plasmon-Exciton Interaction of Ag Nanowire- Graphene Hybrids for Surface Catalytic Reactions. Scientific Reports, 2016, 6, 32724.	3.3	106
34	Propagating Surface Plasmon Polaritons: Towards Applications for Remoteâ€Excitation Surface Catalytic Reactions. Advanced Science, 2016, 3, 1500215.	11.2	106
35	Plasmon-enhanced upconversion photoluminescence: Mechanism and application. Reviews in Physics, 2019, 4, 100026.	8.9	105
36	Dâ€“Aâ^'Ïâ€“A System: Light Harvesting, Charge Transfer, and Molecular Designing. Journal of Physical Chemistry C, 2017, 121, 12546-12561.	3.1	100

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37	Comparison of the electronic structure of PPV and its derivative DIOXA-PPV. Chemical Physics, 2006, 327, 474-484.	1.9	96
38	Layerâ€Controlled and Waferâ€Scale Synthesis of Uniform and Highâ€Quality Graphene Films on a Polycrystalline Nickel Catalyst. Advanced Functional Materials, 2012, 22, 3153-3159.	14.9	93
39	Electrooptical Synergy on Plasmonâ€“Excitonâ€Codriven Surface Reduction Reactions. Advanced Materials Interfaces, 2017, 4, 1700869.	3.7	91
40	Functionalized Gold Nanoparticles: Synthesis, Properties and Biomedical Applications. Chemical Record, 2020, 20, 1474-1504.	5.8	91
41	Plasmonic Scissors for Molecular Design. Chemistry - A European Journal, 2013, 19, 14958-14962.	3.3	89
42	Surface plasmon-driven photocatalysis in ambient, aqueous and high-vacuum monitored by SERS and TERS. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2016, 27, 100-112.	11.6	88
43	Unraveling the Raman Enhancement Mechanism on 1Tâ€²â€Phase ReS₂ Nanosheets. Small, 2018, 14, e1704079.	10.0	87
44	The charge transfer mechanism and spectral properties of a near-infrared heptamethine cyanine dye in alcoholic and aprotic solvents. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 187, 305-310.	3.9	86
45	High vacuum tip-enhanced Raman spectroscope based on a scanning tunneling microscope. Review of Scientific Instruments, 2016, 87, 033104.	1.3	86
46	Interfacial charge transfer exciton enhanced by plasmon in 2D in-plane lateral and van der Waals heterostructures. Applied Physics Letters, 2020, 117, .	3.3	85
47	Insights into the nature of plasmon-driven catalytic reactions revealed by HV-TERS. Nanoscale, 2013, 5, 3249.	5.6	84
48	Unified Treatment for Plasmonâ€“Exciton Co-driven Reduction and Oxidation Reactions. Langmuir, 2017, 33, 12102-12107.	3.5	84
49	Interlayer catalytic exfoliation realizing scalable production of large-size pristine few-layer graphene. Scientific Reports, 2013, 3, 1134.	3.3	83
50	Effect of Electric Field Gradient on Sub-nanometer Spatial Resolution of Tip-enhanced Raman Spectroscopy. Scientific Reports, 2015, 5, 9240.	3.3	83
51	Optoelectronic properties and applications of graphene-based hybrid nanomaterials and van der Waals heterostructures. Applied Materials Today, 2019, 16, 1-20.	4.3	82
52	Visualization of Photoinduced Charge Transfer and Electronâ€“Hole Coherence in Two-Photon Absorption. Journal of Physical Chemistry C, 2019, 123, 14132-14143.	3.1	81
53	Optical properties of low band gap alternating copolyfluorenes for photovoltaic devices. Journal of Chemical Physics, 2005, 123, 204718.	3.0	80
54	Direct visual evidence for the chemical mechanism of surfaceâ€enhanced resonance Raman scattering via charge transfer. Journal of Raman Spectroscopy, 2009, 40, 137-143.	2.5	79

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55	The thermal and thermoelectric properties of in-plane C-BN hybrid structures and graphene/h-BN van der Waals heterostructures. Materials Today Physics, 2018, 5, 29-57.	6.0	79
56	Activated vibrational modes and Fermi resonance in tip-enhanced Raman spectroscopy. Physical Review E, 2013, 87, 020401.	2.1	78
57	Optical, photonic and optoelectronic properties of graphene, h-BN and their hybrid materials. Nanophotonics, 2017, 6, 943-976.	6.0	78
58	Physical mechanism on exciton-plasmon coupling revealed by femtosecond pump-probe transient absorption spectroscopy. Materials Today Physics, 2017, 3, 33-40.	6.0	78
59	Chemical mechanism of surfaceâ€enhanced resonance Raman scattering via charge transfer in pyridineâ€“Ag₂ complex. Journal of Raman Spectroscopy, 2008, 39, 402-408.	2.5	77
60	Farâ€Field Spectroscopy and Nearâ€Field Optical Imaging of Coupled Plasmonâ€“Phonon Polaritons in 2D van der Waals Heterostructures. Advanced Materials, 2016, 28, 2931-2938.	21.0	77
61	Two-dimensional WS₂/MoS₂ heterostructures: properties and applications. Nanoscale, 2021, 13, 5594-5619.	5.6	73
62	Photoinduced intramolecular charge-transfer state in thiophene-Ï€-conjugated donorâ€“acceptor molecules. Journal of Molecular Structure, 2008, 876, 102-109.	3.6	72
63	Plasmon-exciton coupling by hybrids between graphene and gold nanorods vertical array for sensor. Applied Materials Today, 2019, 14, 166-174.	4.3	69
64	Visualizations of transition dipoles, charge transfer, and electron-hole coherence on electronic state transitions between excited states for two-photon absorption. Journal of Chemical Physics, 2008, 128, 064106.	3.0	68
65	Two-dimensional black phosphorus: physical properties and applications. Materials Today Physics, 2019, 8, 92-111.	6.0	68
66	Formation of Enhanced Uniform Chiral Fields in Symmetric Dimer Nanostructures. Scientific Reports, 2015, 5, 17534.	3.3	66
67	Photoinduced Electron Transfer in Organic Solar Cells. Chemical Record, 2016, 16, 734-753.	5.8	66
68	Site-selected N vacancy of g-C3N4 for photocatalysis and physical mechanism. Applied Materials Today, 2018, 13, 329-338.	4.3	66
69	Synthesis of homogeneous carbon quantum dots by ultrafast dual-beam pulsed laser ablation for bioimaging. Materials Today Nano, 2020, 12, 100091.	4.6	66
70	Ag nanoparticles-TiO2 film hybrid for plasmon-exciton co-driven surface catalytic reactions. Applied Materials Today, 2017, 9, 251-258.	4.3	65
71	Theoretical Investigations of Optical Origins of Fluorescent Graphene Quantum Dots. Scientific Reports, 2016, 6, 24850.	3.3	64
72	Plasmonic Gradient Effects on High Vacuum Tipâ€Enhanced Raman Spectroscopy. Advanced Optical Materials, 2014, 2, 74-80.	7.3	63

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73	Direct Visualization of the Chemical Mechanism in SERRS of 4â€Aminothiophenol/Metal Complexes and Metal/4â€Aminothiophenol/Metal Junctions. ChemPhysChem, 2009, 10, 392-399.	2.1	62
74	Properties and applications of new superlattice: twisted bilayer graphene. Materials Today Physics, 2019, 9, 100099.	6.0	62
75	Chemical and electromagnetic mechanisms of tip-enhanced Raman scattering. Physical Chemistry Chemical Physics, 2009, 11, 9412.	2.8	61
76	Insight into external electric field dependent photoinduced intermolecular charge transport in BHJ solar cell materials. Journal of Materials Chemistry C, 2015, 3, 4810-4819.	5.5	60
77	Submonolayer-Pt-Coated Ultrathin Au Nanowires and Their Self-Organized Nanoporous Film: SERS and Catalysis Active Substrates for Operando SERS Monitoring of Catalytic Reactions. Journal of Physical Chemistry Letters, 2014, 5, 969-975.	4.6	59
78	Three Dimensional Hybrids of Vertical Graphene-nanosheet Sandwiched by Ag-nanoparticles for Enhanced Surface Selectively Catalytic Reactions. Scientific Reports, 2015, 5, 16019.	3.3	59
79	Graphitic carbon nitride nanostructures: Catalysis. Applied Materials Today, 2019, 16, 388-424.	4.3	58
80	Magnetics and spintronics on two-dimensional composite materials of graphene/hexagonal boron nitride. Materials Today Physics, 2017, 3, 93-117.	6.0	56
81	Electric field gradient quadrupole Raman modes observed in plasmon-driven catalytic reactions revealed by HV-TERS. Nanoscale, 2013, 5, 4151.	5.6	54
82	Graphene plasmon for optoelectronics. Reviews in Physics, 2021, 6, 100054.	8.9	54
83	Control of Emission by Intermolecular Fluorescence Resonance Energy Transfer and Intermolecular Charge Transfer. Journal of Physical Chemistry A, 2006, 110, 6324-6328.	2.5	52
84	Fabrication of a Au Nanoporous Film by Self-Organization of Networked Ultrathin Nanowires and Its Application as a Surface-Enhanced Raman Scattering Substrate for Single-Molecule Detection. Analytical Chemistry, 2011, 83, 9131-9137.	6.5	52
85	Atomicâ€Levelâ€Designed Catalytically Active Palladium Atoms on Ultrathin Gold Nanowires. Advanced Materials, 2017, 29, 1604571.	21.0	52
86	The Thermal, Electrical and Thermoelectric
Properties of Graphene Nanomaterials. Nanomaterials, 2019, 9, 218.	4.1	52
87	The linear and non-linear optical absorption and asymmetrical electromagnetic interaction in chiral twisted bilayer graphene with hybrid edges. Materials Today Physics, 2020, 14, 100222.	6.0	52
88	Surface enhanced Raman scattering of pyridine adsorbed on Au@Pd core/shell nanoparticles. Journal of Chemical Physics, 2009, 130, 234705.	3.0	51
89	Synergistic Modulation of Surface Interaction to Assemble Metal Nanoparticles into Twoâ€Dimensional Arrays with Tunable Plasmonic Properties. Small, 2014, 10, 609-616.	10.0	51
90	Plasmon-driven sequential chemical reactions in an aqueous environment. Scientific Reports, 2015, 4, 5407.	3.3	51

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91	Plasmon-driven surface catalysis in hybridized plasmonic gap modes. Scientific Reports, 2015, 4, 7087.	3.3	49
92	Plasmon and Plexciton Driven Interfacial Catalytic Reactions. Chemical Record, 2021, 21, 797-819.	5.8	49
93	DFT study of adsorption site effect on surface-enhanced Raman scattering of neutral and charged pyridineâ€“Ag4 complexes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 73, 382-387.	3.9	46
94	Remote Excitation Polarization-Dependent Surface Photochemical Reaction by Plasmonic Waveguide. Plasmonics, 2011, 6, 681-687.	3.4	45
95	Remote Excitation of Surface-Enhanced Raman Scattering on Single Au Nanowire with Quasi-Spherical Termini. Journal of Physical Chemistry C, 2011, 115, 3558-3561.	3.1	44
96	Plasmonâ€Driven Selective Reductions Revealed by Tipâ€Enhanced Raman Spectroscopy. Advanced Materials Interfaces, 2014, 1, 1300125.	3.7	44
97	Screening and design of high-performance indoline-based dyes for DSSCs. RSC Advances, 2017, 7, 20520-20536.	3.6	44
98	Self-assembly of Au@Ag coreâ€“shell nanocuboids into staircase superstructures by droplet evaporation. Nanoscale, 2018, 10, 142-149.	5.6	44
99	Plasmonâ€Exciton Coupling Interaction for Surface Catalytic Reactions. Chemical Record, 2018, 18, 481-490.	5.8	44
100	Molecular resonant dissociation of surface-adsorbed molecules by plasmonic nanoscissors. Nanoscale, 2014, 6, 4903-4908.	5.6	43
101	Visualizations of Electric and Magnetic Interactions in Electronic Circular Dichroism and Raman Optical Activity. Journal of Physical Chemistry A, 2019, 123, 8071-8081.	2.5	43
102	Chiral surface plasmon-enhanced chiral spectroscopy: principles and applications. Nanoscale, 2021, 13, 581-601.	5.6	43
103	Local and Remote Chargeâ€Transferâ€Enhanced Raman Scattering on Oneâ€Dimensional Transitionâ€Metal Oxides. Chemistry - an Asian Journal, 2010, 5, 1824-1829.	3.3	42
104	A plasmon-driven selective surface catalytic reaction revealed by surface-enhanced Raman scattering in an electrochemical environment. Scientific Reports, 2015, 5, 11920.	3.3	42
105	Optoelectronic and photoelectric properties and applications of graphene-based nanostructures. Materials Today Physics, 2020, 13, 100196.	6.0	42
106	Near field plasmonic gradient effects on high vacuum tip-enhanced Raman spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 783-794.	2.8	41
107	Porous size dependent g-C3N4 for efficient photocatalysts: Regulation synthesizes and physical mechanism. Materials Today Energy, 2019, 13, 11-21.	4.7	41
108	Multiple surface plasmon resonances enhanced nonlinear optical microscopy. Nanophotonics, 2019, 8, 487-493.	6.0	41

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109	Plasmonâ€Enhanced Fluorescence Resonance Energy Transfer. Chemical Record, 2019, 19, 818-842.	5.8	41
110	Deep ultraviolet tip-enhanced Raman scattering. Chemical Communications, 2011, 47, 9131.	4.1	40
111	Ultrafast carrier transfer evidencing graphene electromagnetically enhanced ultrasensitive SERS in graphene/Ag-nanoparticles hybrid. Carbon, 2017, 122, 98-105.	10.3	40
112	Photoactive layer based on T-shaped benzimidazole dyes used for solar cell: from photoelectric properties to molecular design. Scientific Reports, 2017, 7, 45688.	3.3	40
113	Nanoscale Vertical Arrays of Gold Nanorods by Self-Assembly: Physical Mechanism and Application. Nanoscale Research Letters, 2019, 14, 118.	5.7	40
114	Physical principle and advances in plasmon-enhanced upconversion luminescence. Applied Materials Today, 2019, 15, 43-57.	4.3	40
115	Tipâ€Enhanced Resonance Couplings Revealed by High Vacuum Tipâ€Enhanced Raman Spectroscopy. Advanced Optical Materials, 2013, 1, 449-455.	7.3	39
116	Plasmonâ€driven catalysis in aqueous solutions probed by SERS spectroscopy. Journal of Raman Spectroscopy, 2016, 47, 877-883.	2.5	39
117	Photoinduced Charge Transfer in Donor-Bridge-Acceptor in One- and Two-photon Absorption: Sequential and Superexchange Mechanisms. Journal of Physical Chemistry C, 2020, 124, 4968-4981.	3.1	39
118	Graphene-based SERS for sensor and catalysis. Applied Spectroscopy Reviews, 2023, 58, 1-38.	6.7	39
119	External Electric Field-Dependent Photoinduced Charge Transfer in a Donorâ€“Acceptor System in Two-Photon Absorption. Journal of Physical Chemistry C, 2020, 124, 2319-2332.	3.1	38
120	Plasmon-Driven Diazo Coupling Reactions of p-Nitroaniline via â^'NH2 or â^'NO2 in Atmosphere Environment. Journal of Physical Chemistry C, 2017, 121, 5225-5231.	3.1	37
121	Physical mechanism of photoinduced intermolecular charge transfer enhanced by fluorescence resonance energy transfer. Physical Chemistry Chemical Physics, 2018, 20, 13558-13565.	2.8	37
122	Physical Mechanisms on Plasmon-Enhanced Organic Solar Cells. Journal of Physical Chemistry C, 2021, 125, 21301-21309.	3.1	36
123	Photoabsorption of green and red fluorescent protein chromophore anions in vacuo. Biophysical Chemistry, 2007, 129, 218-223.	2.8	35
124	A one-step facile synthesis of Agâ€“Ni coreâ€“shell nanoparticles in water-in-oil microemulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 367, 96-101.	4.7	35
125	Optical characterizations of two-dimensional materials using nonlinear optical microscopies of CARS, TPEF, and SHG. Nanophotonics, 2018, 7, 873-881.	6.0	35
126	Direct Visual Evidence for Quinoidal Charge Delocalization in Poly-p-phenylene Cation Radical. Journal of Physical Chemistry B, 2007, 111, 13266-13270.	2.6	34

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127	S1 and S2 Excited States of Gas-Phase Schiff-Base Retinal Chromophores:â€‰ A Time-Dependent Density Functional Theoretical Investigation. Journal of Physical Chemistry A, 2007, 111, 2946-2950.	2.5	34
128	Tip-enhanced Raman spectroscopy. Reviews in Physics, 2022, 8, 100067.	8.9	34
129	Ascertaining genuine SERS spectra of p-aminothiophenol. RSC Advances, 2012, 2, 8289.	3.6	33
130	Photoinduced Charge Transport in a BHJ Solar Cell Controlled by an External Electric Field. Scientific Reports, 2015, 5, 13970.	3.3	33
131	Tip-enhanced photoluminescence spectroscopy of monolayer MoS_2. Photonics Research, 2017, 5, 745.	7.0	33
132	Intramolecular charge transfer and locally excited states of the fullerene-linked quarter-thiophenes dyad. Chemical Physics Letters, 2005, 413, 110-117.	2.6	32
133	Accurate double manyâ€body expansion potential energy surface by extrapolation to the complete basis set limit and dynamics calculations for ground state of NH₂. Journal of Computational Chemistry, 2013, 34, 1686-1696.	3.3	32
134	A Nanoplasmonic Strategy for Precision in-situ Measurements of Tip-enhanced Raman and Fluorescence Spectroscopy. Scientific Reports, 2016, 6, 19558.	3.3	32
135	Excited state properties of novel p- and n-type organic semiconductors with an anthracene unit. Chemical Physics, 2006, 320, 155-163.	1.9	31
136	Intramolecular charge transfer in the porphyrinâ€“oligothiopheneâ€“fullerene triad. Chemical Physics Letters, 2005, 416, 94-99.	2.6	29
137	Do coupling exciton and oscillation of electron-hole pair exist in neutral and charged Ï€-dimeric quinquethiophenes?. Journal of Chemical Physics, 2007, 127, 084706.	3.0	29
138	Accurate ab initio-based adiabatic global potential energy surface for the 22Aâ€³ state of NH2 by extrapolation to the complete basis set limit. Journal of Chemical Physics, 2013, 139, 154305.	3.0	29
139	How was the proton transfer process in bis-3, 6-(2- benzoxazolyl)-pyrocatechol, single or double proton transfer?. Scientific Reports, 2016, 6, 25568.	3.3	29
140	Ultrafast carrier dynamics in all-inorganic CsPbBr₃ perovskite across the pressure-induced phase transition. Optics Express, 2019, 27, A995.	3.4	29
141	Excited state properties of acceptor-substitute carotenoids: 2D and 3D real-space analysis. Chemical Physics Letters, 2005, 401, 558-564.	2.6	28
142	Excited state properties of the chromophore of the asFP595 chromoprotein: 2D and 3D theoretical analyses. International Journal of Quantum Chemistry, 2006, 106, 1020-1026.	2.0	28
143	Direct visual evidence for the chemical mechanism of surfaceâ€enhanced resonance Raman scattering via charge transfer: (II) Bindingâ€site and quantumâ€size effects. Journal of Raman Spectroscopy, 2009, 40, 1172-1177.	2.5	28
144	Can information of chemical reaction propagate with plasmonic waveguide and be detected at remote terminal of nanowire?. Nanoscale, 2011, 3, 4114.	5.6	28

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145	Flexible and transparent Au nanoparticle/graphene/Au nanoparticle â€˜sandwichâ€™ substrate for surface-enhanced Raman scattering. Materials Today Nano, 2020, 9, 100067.	4.6	28
146	Theoretical study on polyaniline gas sensors: Examinations of response mechanism for alcohol. Synthetic Metals, 2012, 162, 862-867.	3.9	27
147	Photoinduced charge transfer by one and two-photon absorptions: physical mechanisms and applications. Physical Chemistry Chemical Physics, 2018, 20, 19720-19743.	2.8	27
148	In situ Plasmon-Enhanced CARS and TPEF for Gram staining identification of non-fluorescent bacteria. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 264, 120283.	3.9	27
149	Nonlinear plexcitons: excitons coupled with plasmons in two-photon absorption. Nanoscale, 2022, 14, 7269-7279.	5.6	27
150	Charge transfer state induced from locally excited state by polar solvent. Chemical Physics Letters, 2005, 408, 128-133.	2.6	26
151	Microwave-assisted synthesis of sensitive silver substrate for surface-enhanced Raman scattering spectroscopy. Journal of Chemical Physics, 2008, 129, 134703.	3.0	26
152	Vibronic quantized tunneling controlled photoinduced electron transfer in an organic solar cell subjected to an external electric field. Physical Chemistry Chemical Physics, 2017, 19, 16105-16112.	2.8	26
153	Plasmonâ€“exciton coâ€driven surface catalytic reaction in electrochemical Gâ€SERS. Journal of Raman Spectroscopy, 2017, 48, 1144-1147.	2.5	26
154	Tuning the SERS activity and plasmon-driven reduction of p-nitrothiophenol on a Ag@MoS₂ film. Faraday Discussions, 2019, 214, 297-307.	3.2	26
155	The nature of chirality induced by molecular aggregation and self-assembly. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 212, 188-198.	3.9	26
156	Two-photon photophysical properties of tri-9-anthrylborane. Chemical Physics Letters, 2007, 436, 280-286.	2.6	25
157	Ab initio-based double many-body expansion potential energy surface for the first excited triplet state of the ammonia molecule. Journal of Chemical Physics, 2012, 136, 194705.	3.0	25
158	Selective plasmon-driven catalysis for para-nitroaniline in aqueous environments. Scientific Reports, 2016, 6, 20458.	3.3	25
159	Transition metal dichalcogenides (TMDCs) heterostructures: Optoelectric properties. Frontiers of Physics, 2022, 17, .	5.0	25
160	Remote Excitation Surface Plasmon and Consequent Enhancement of Surface-Enhanced Raman Scattering Using Evanescent Wave Propagating in Quasi-One-Dimensional MoO3 Ribbon Dielectric Waveguide. Plasmonics, 2011, 6, 189-193.	3.4	24
161	Advances in nonlinear optical microscopy for biophotonics. Journal of Nanophotonics, 2018, 12, 1.	1.0	24
162	Theoretical study on SERRS of rhodamine 6G adsorbed on Ag₂ cluster: chemical mechanism via intermolecular or intramolecular charge transfer. Journal of Raman Spectroscopy, 2008, 39, 1170-1177.	2.5	23

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163	An in situ SERS study of substrate-dependent surface plasmon induced aromatic nitration. Journal of Materials Chemistry C, 2015, 3, 5285-5291.	5.5	23
164	Perspective on plexciton based on transition metal dichalcogenides. Applied Physics Letters, 2022, 120, .	3.3	23
165	Effect of aqueous and ambient atmospheric environments on plasmon-driven selective reduction reactions. Scientific Reports, 2015, 5, 10269.	3.3	22
166	Plasmonic electrons enhanced resonance Raman scattering (EERRS) and electrons enhanced fluorescence (EEF) spectra. Applied Materials Today, 2018, 13, 298-302.	4.3	22
167	Pressure-dependent interfacial charge transfer excitons in WSe2-MoSe2 heterostructures in near infrared region. Results in Physics, 2021, 24, 104110.	4.1	22
168	Exploring Nonemissive Excited-State Intramolecular Proton Transfer by Plasmon-Enhanced Hyper-Raman Scattering and Two-Photon Excitation Fluorescence. Journal of Physical Chemistry C, 2022, 126, 487-492.	3.1	22
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